

FIG. 1

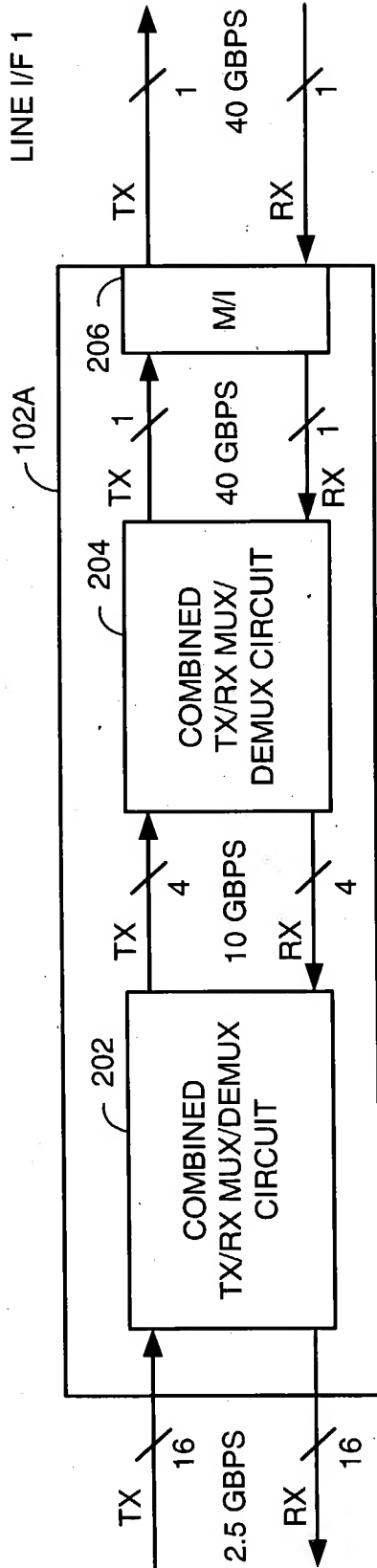


FIG. 2A

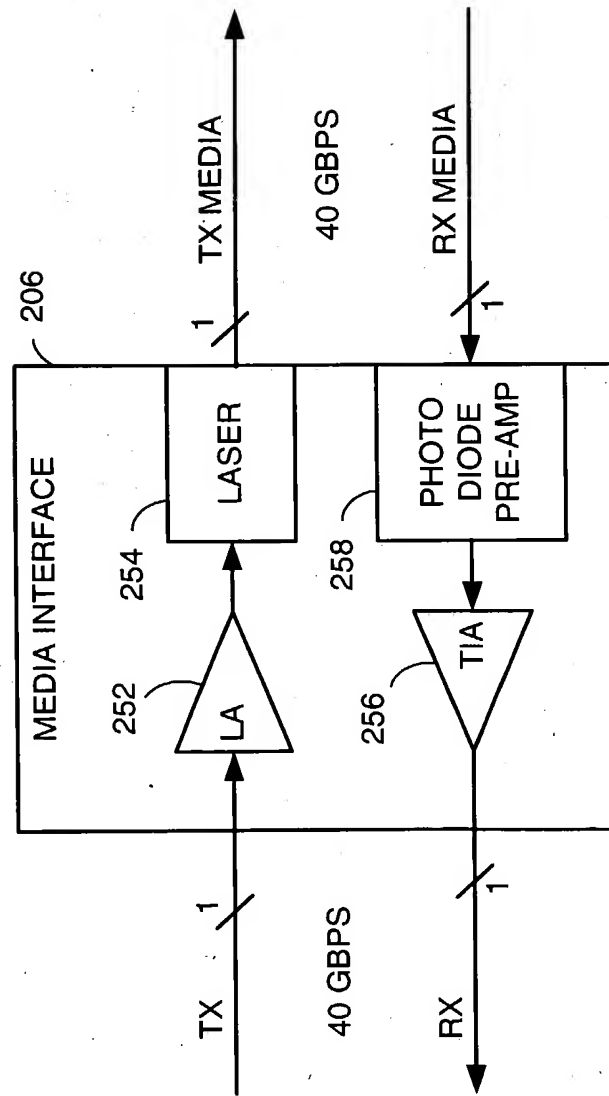


FIG. 2B

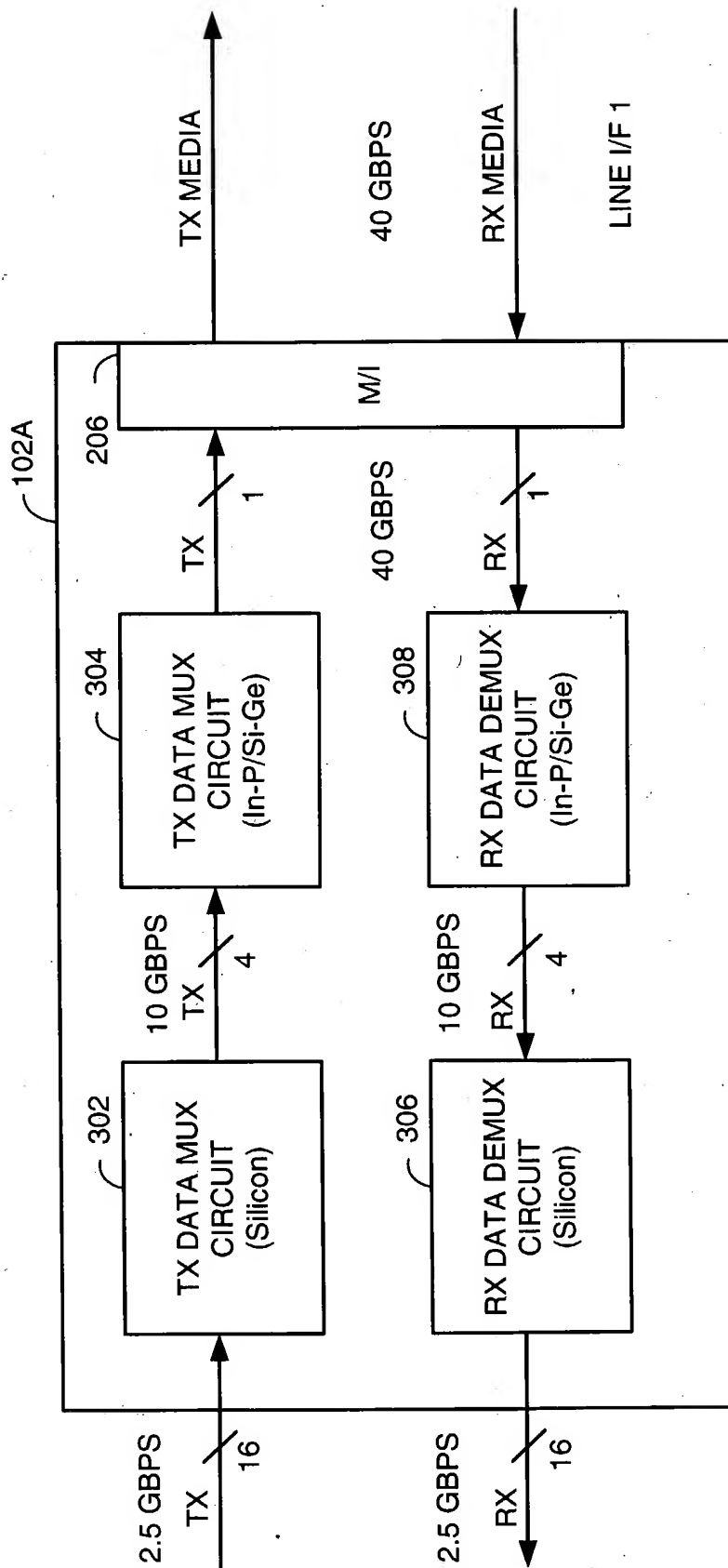


FIG. 3

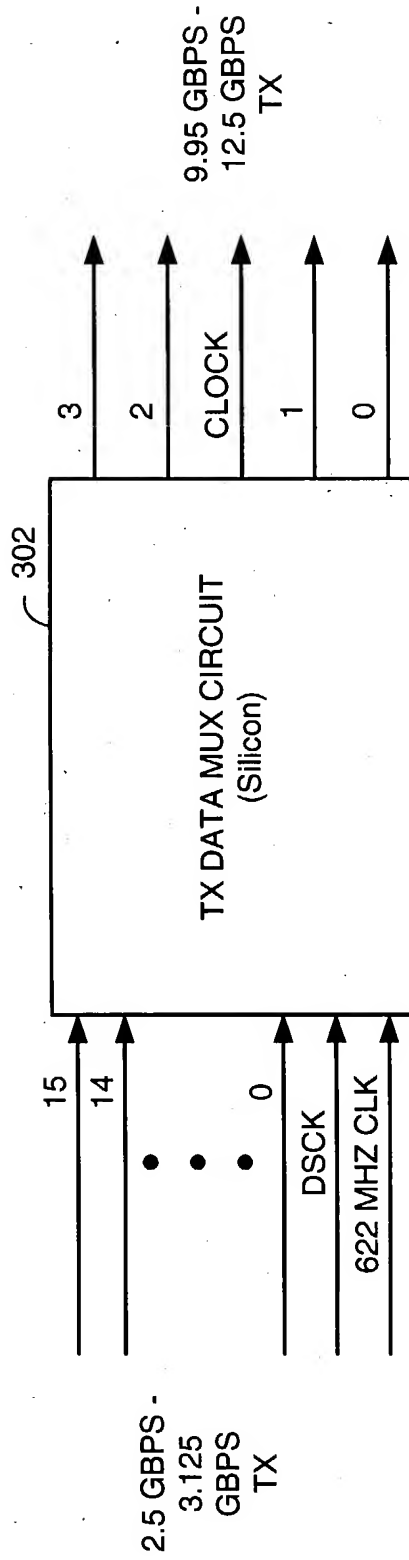


FIG. 4A

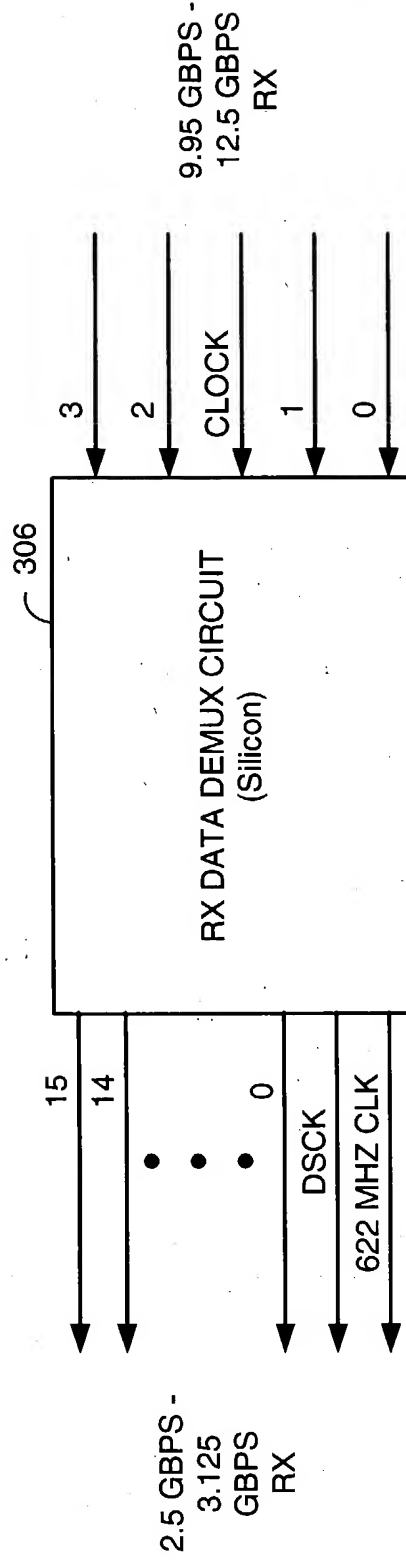
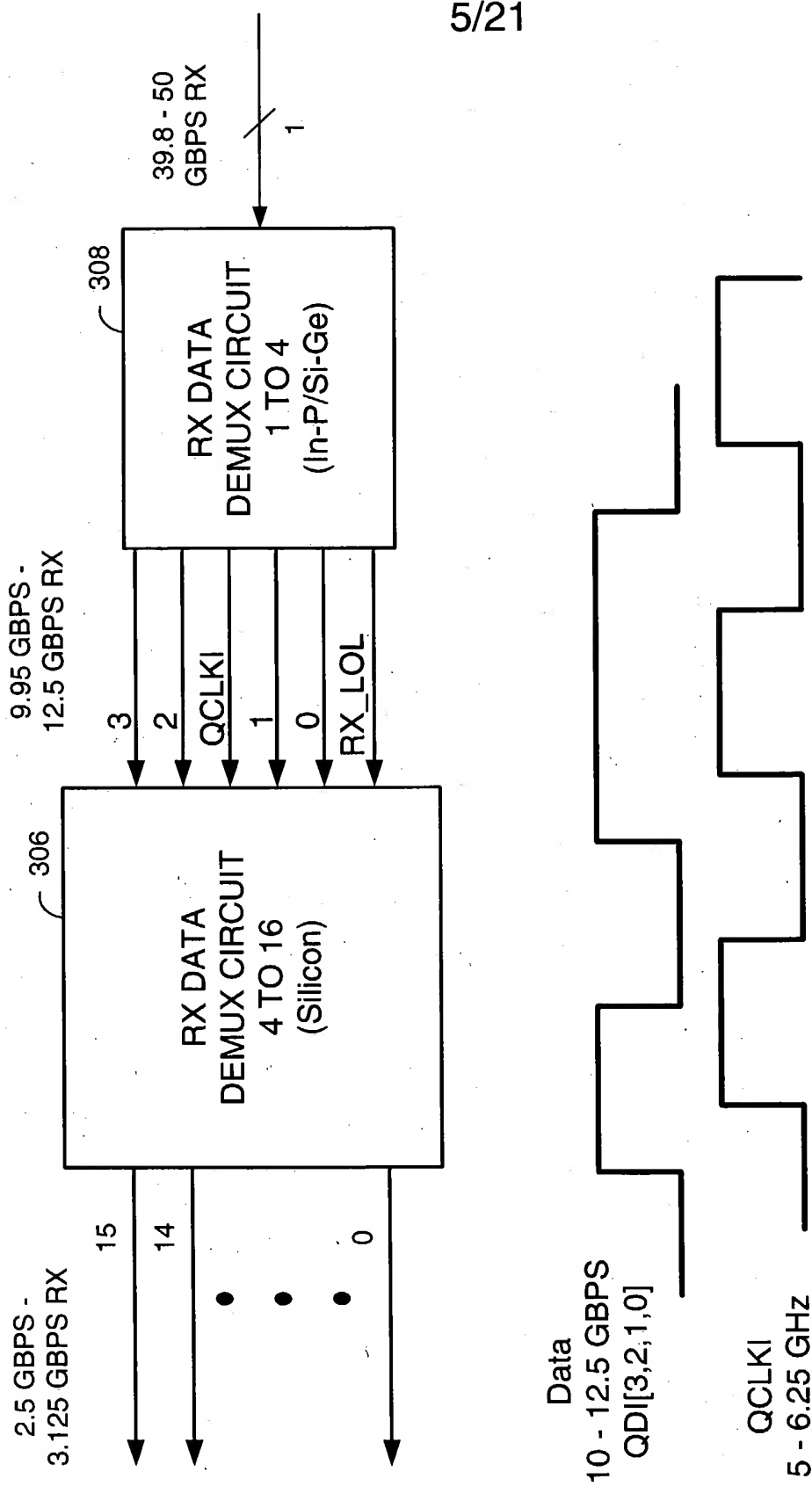


FIG. 4B



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FIG. 5

Receiver Input and Source Centered Clock Performance

Parameter	Symbol	Conditions	Min	Typ	Max	Units
Output Common Mode	V _{cm}	See Figure Below	1575	1675	1775	mV
Single Ended Output Impedance	Z _{SE}		40	50	60	Ω
Differential Input impedance	Z _d		80	100	120	Ω
Input Impedance Mismatch	Z _M				10	%
Q40, CML Input Differential Amplitude, p-p	Δ VQDO	See Figure Below	400	500	600	mV
Q40 Input Rise and Fall Time (20% to 80%)	t _{RH} , t _{FH}			25	35	ps
Differential output return loss*	S11	Up to 7.5 GHz	10			dB
4-by-1 mux input return loss >15 db at 10 GHz						

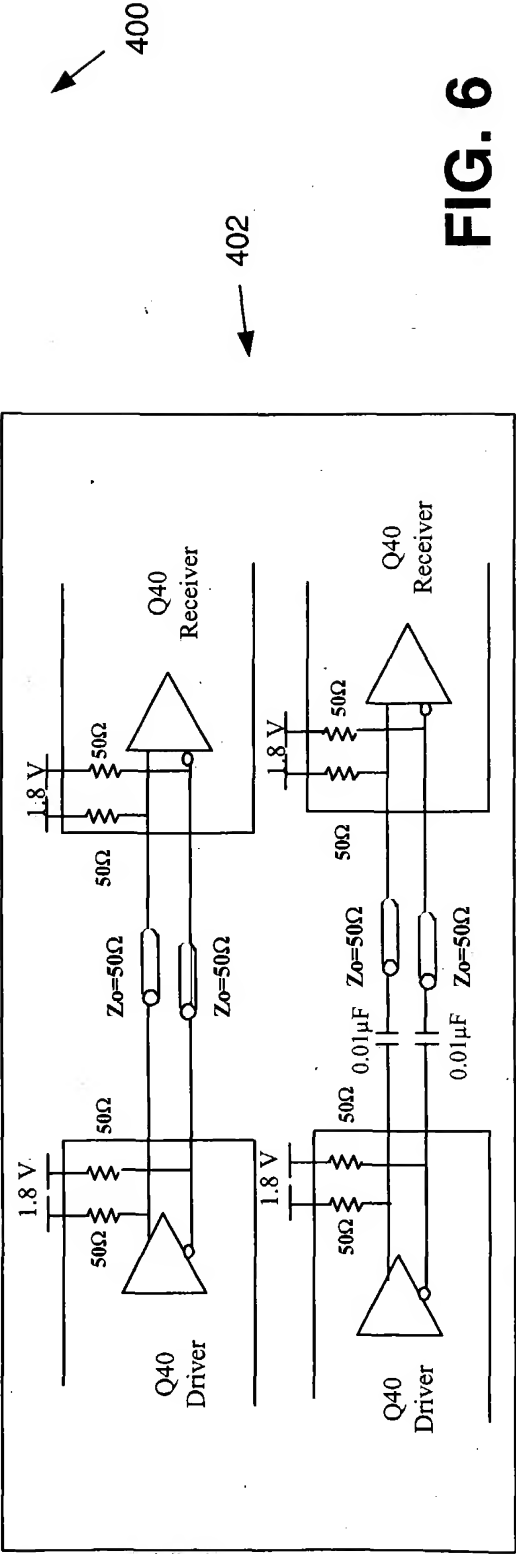


FIG. 6

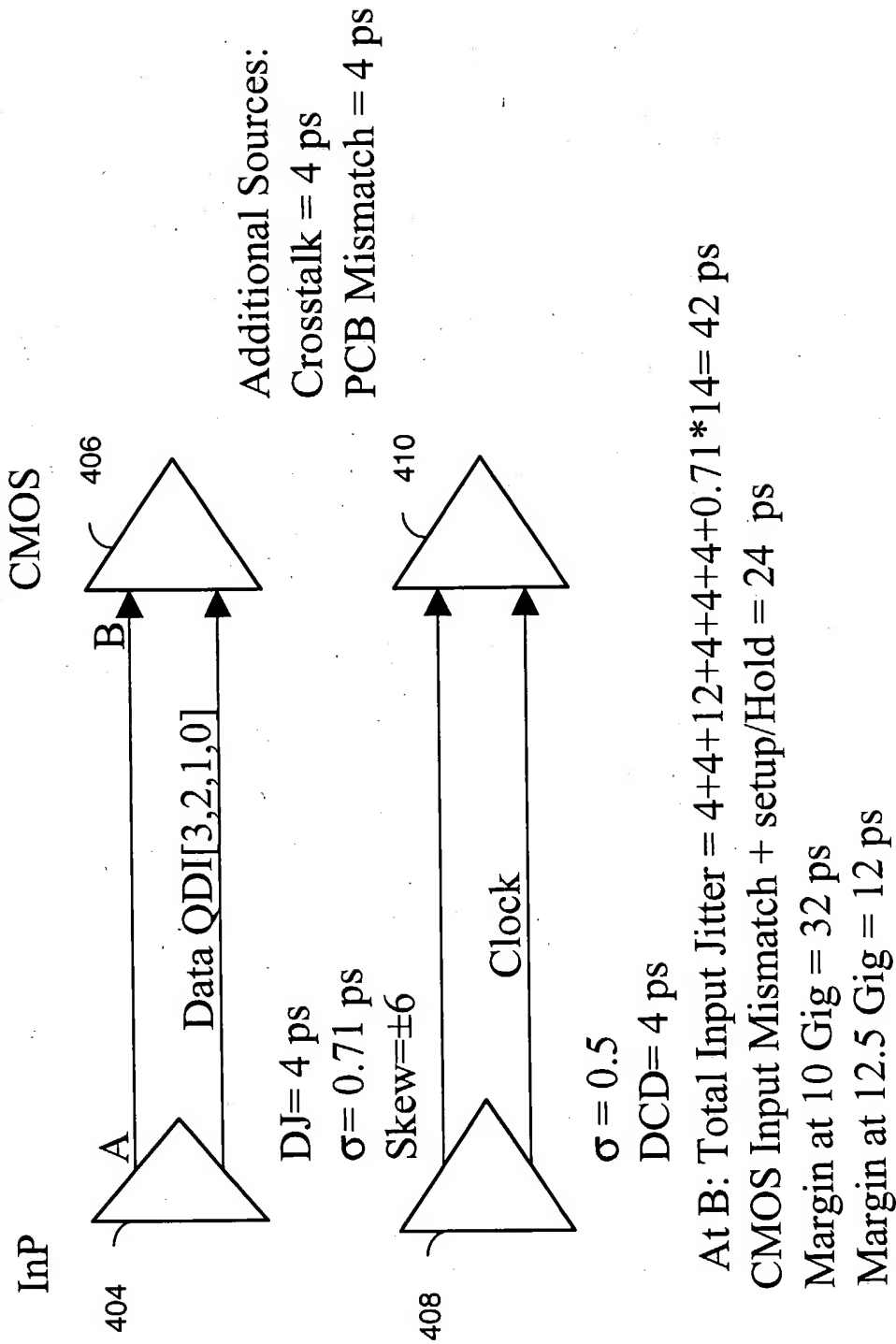


FIG. 7

Transmit and Receive

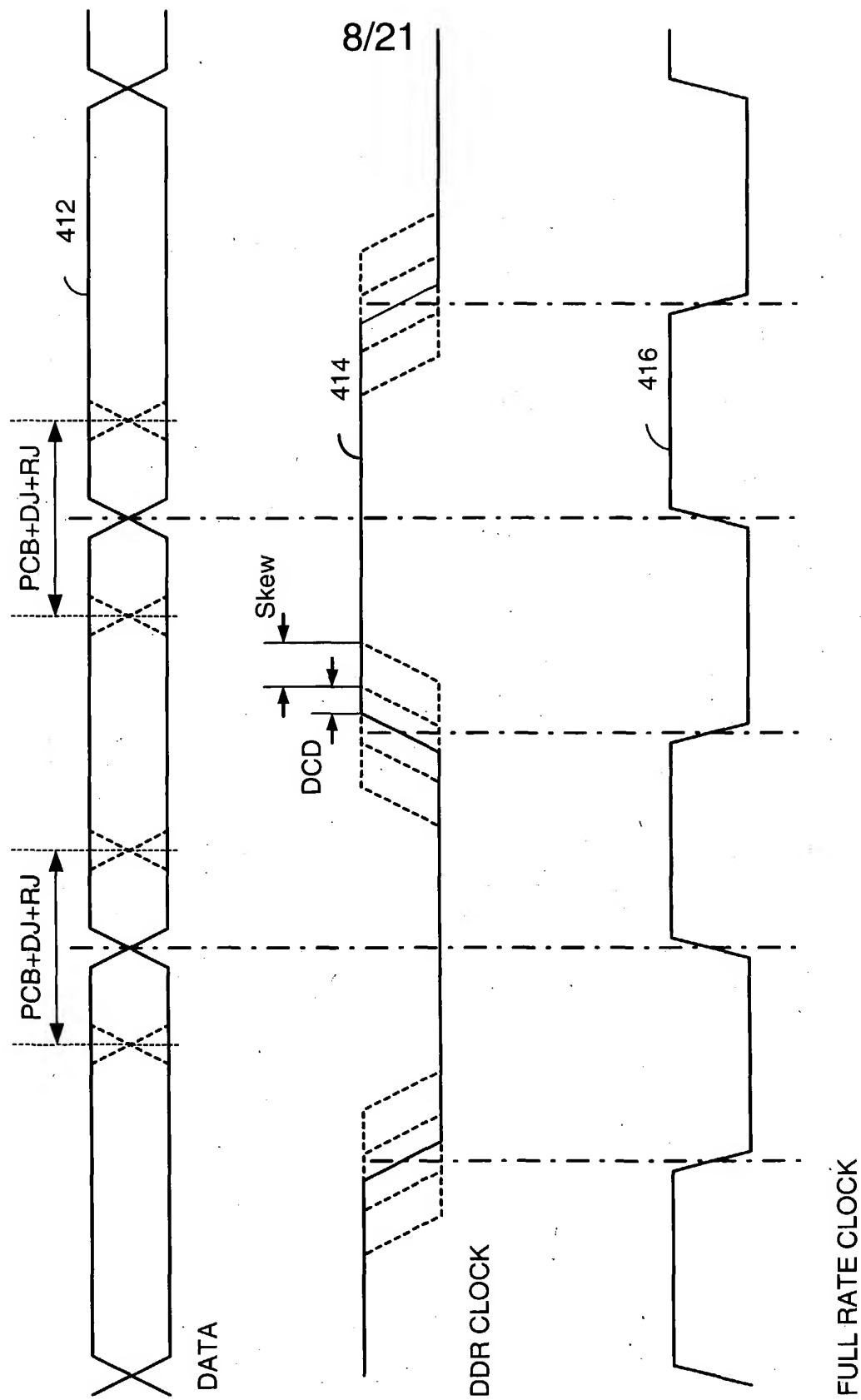


FIG. 8

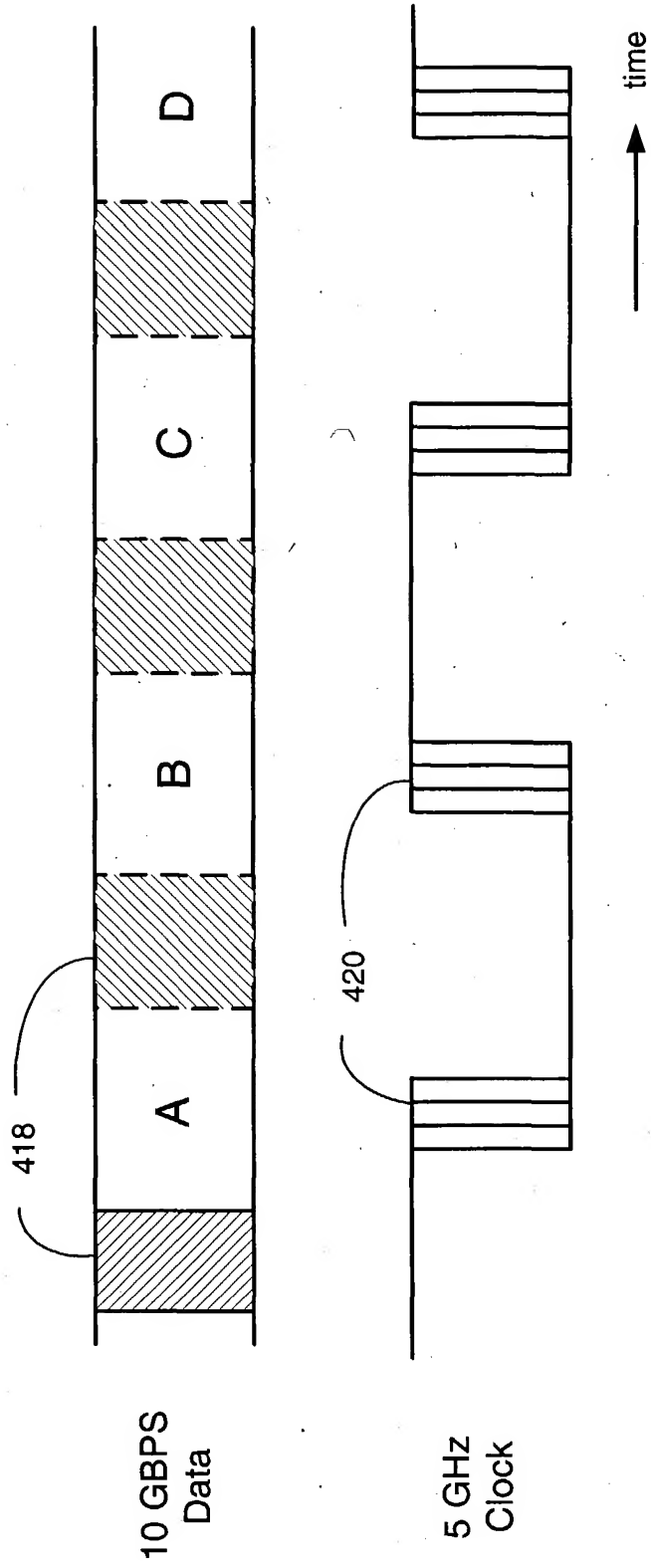


FIG. 9

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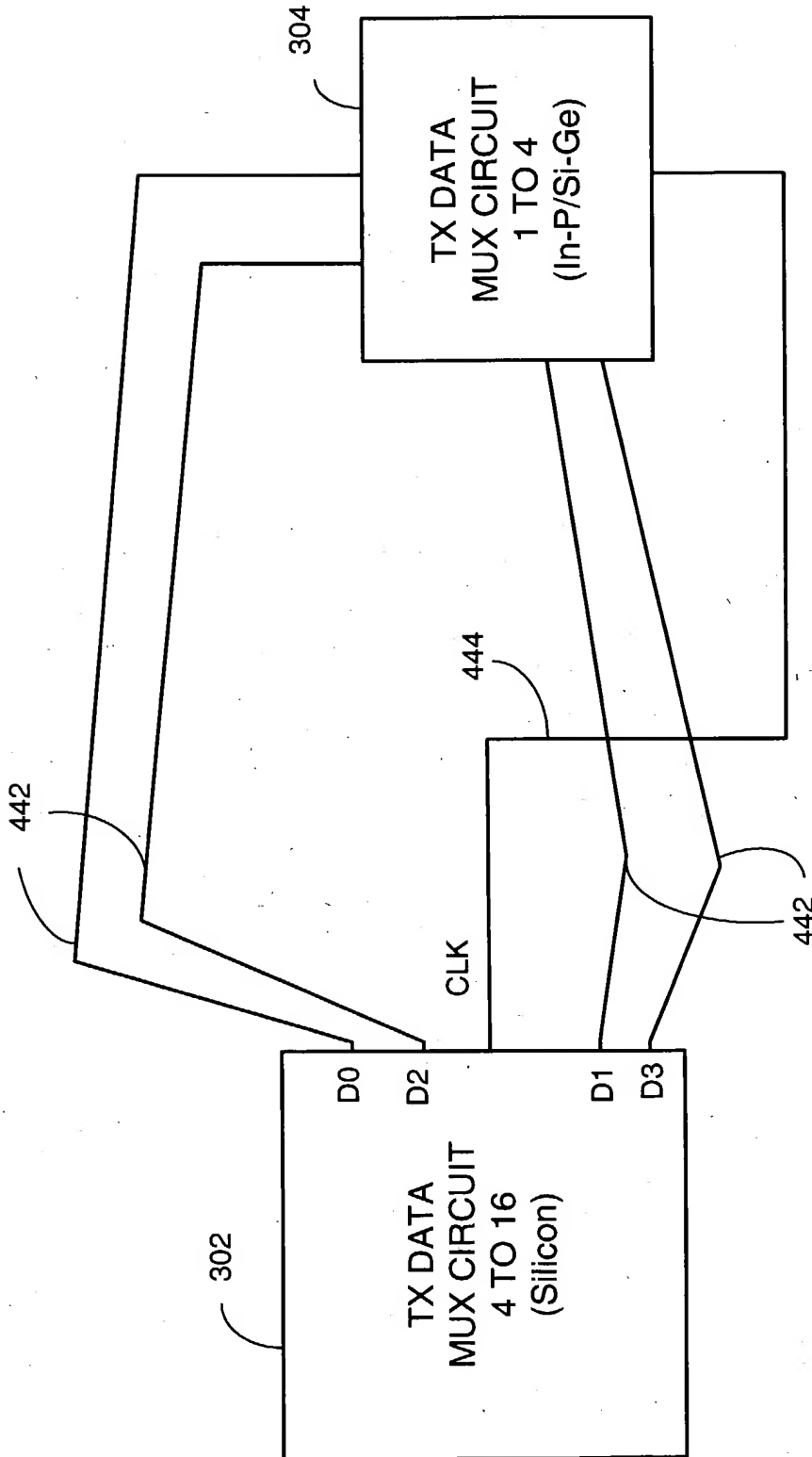


FIG. 10B

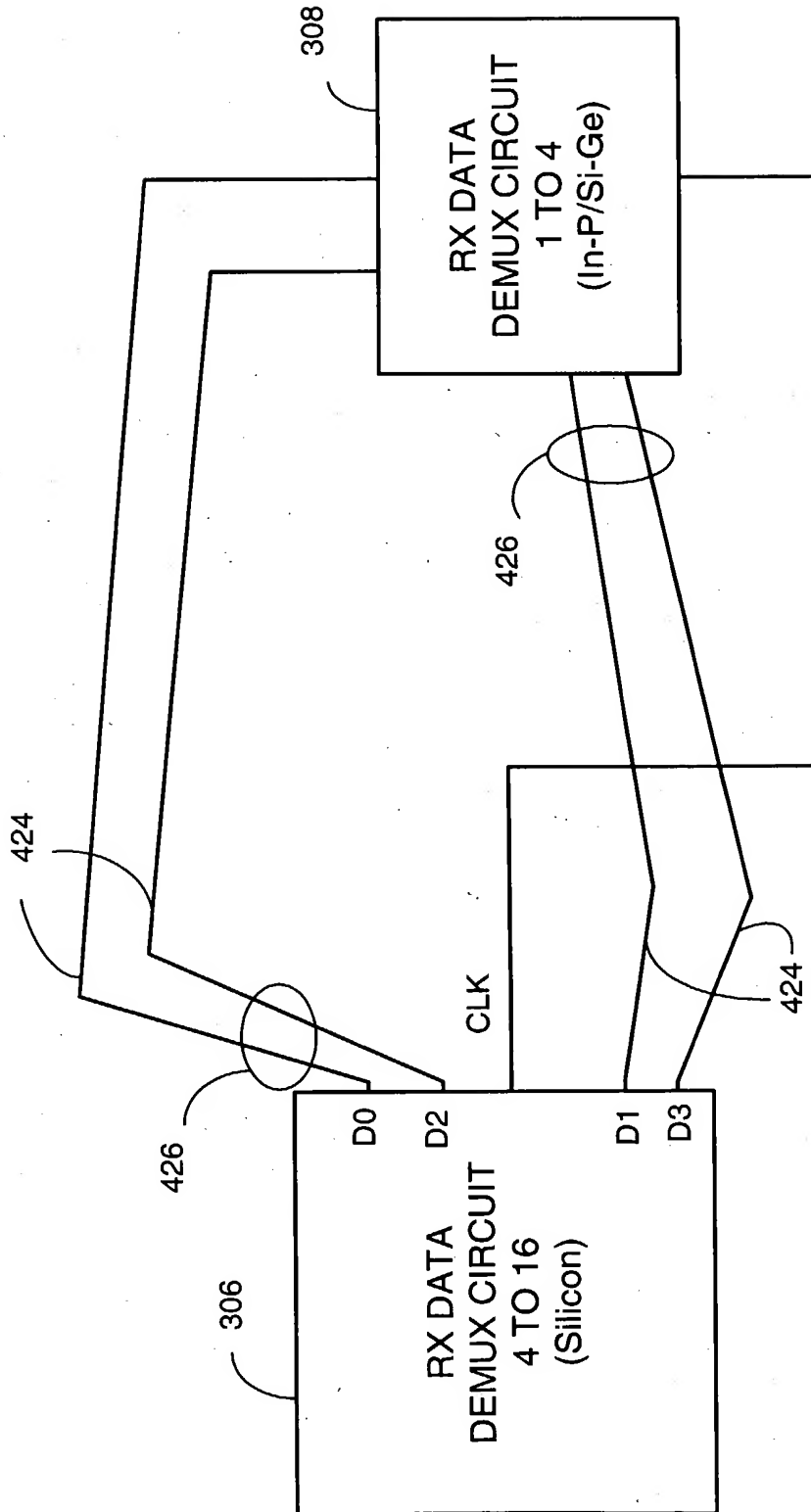


FIG. 10A

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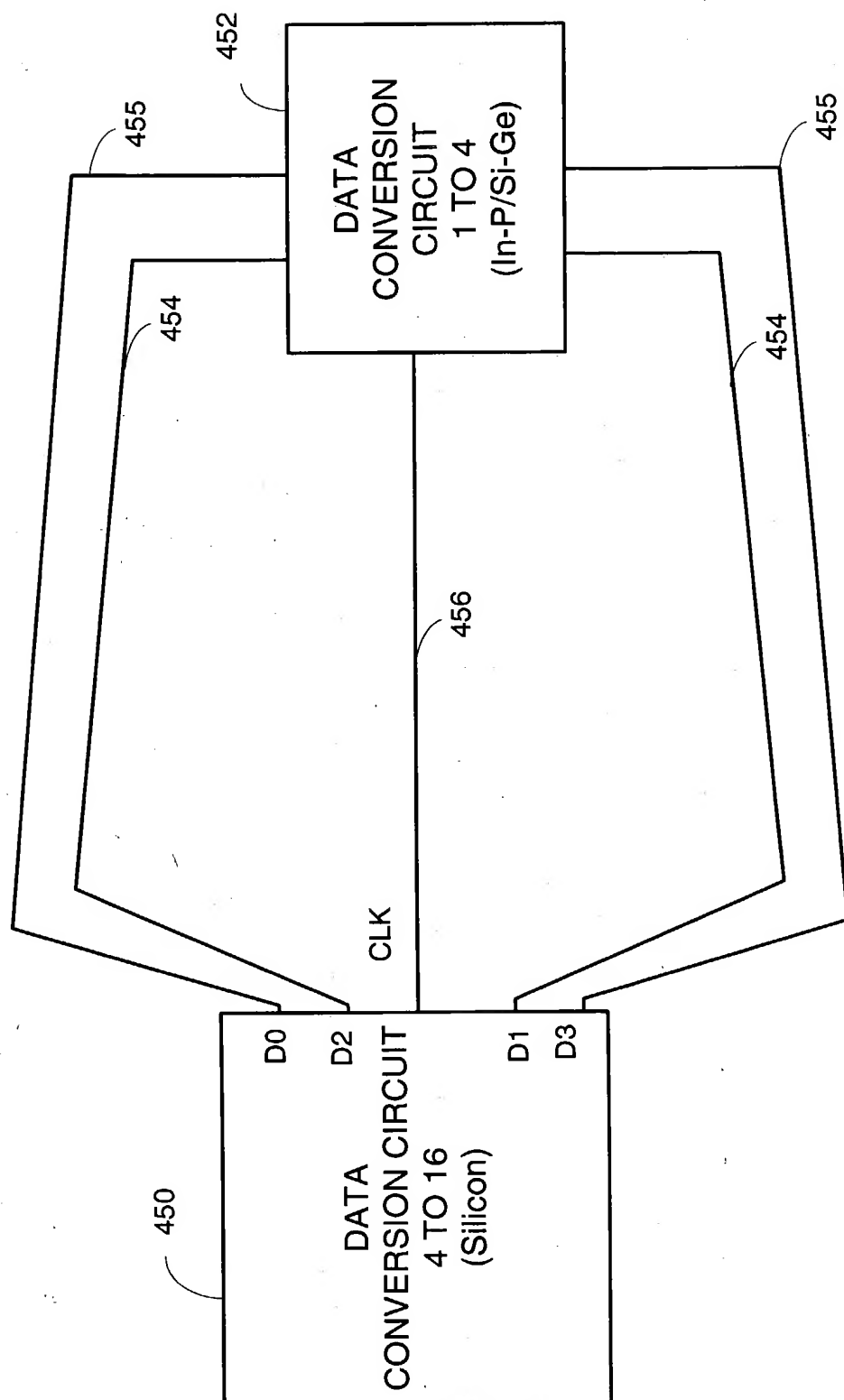


FIG. 10C

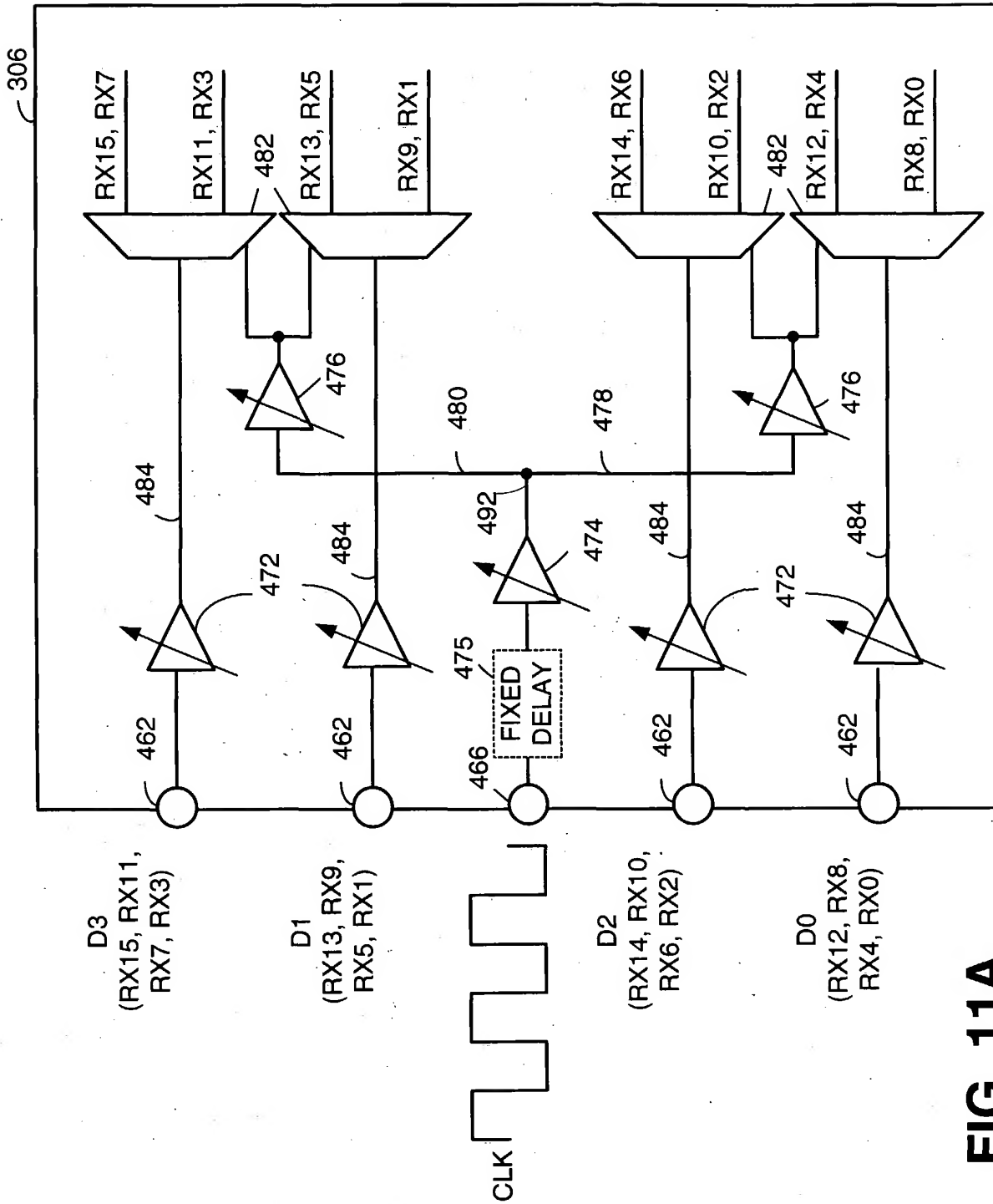


FIG. 11A

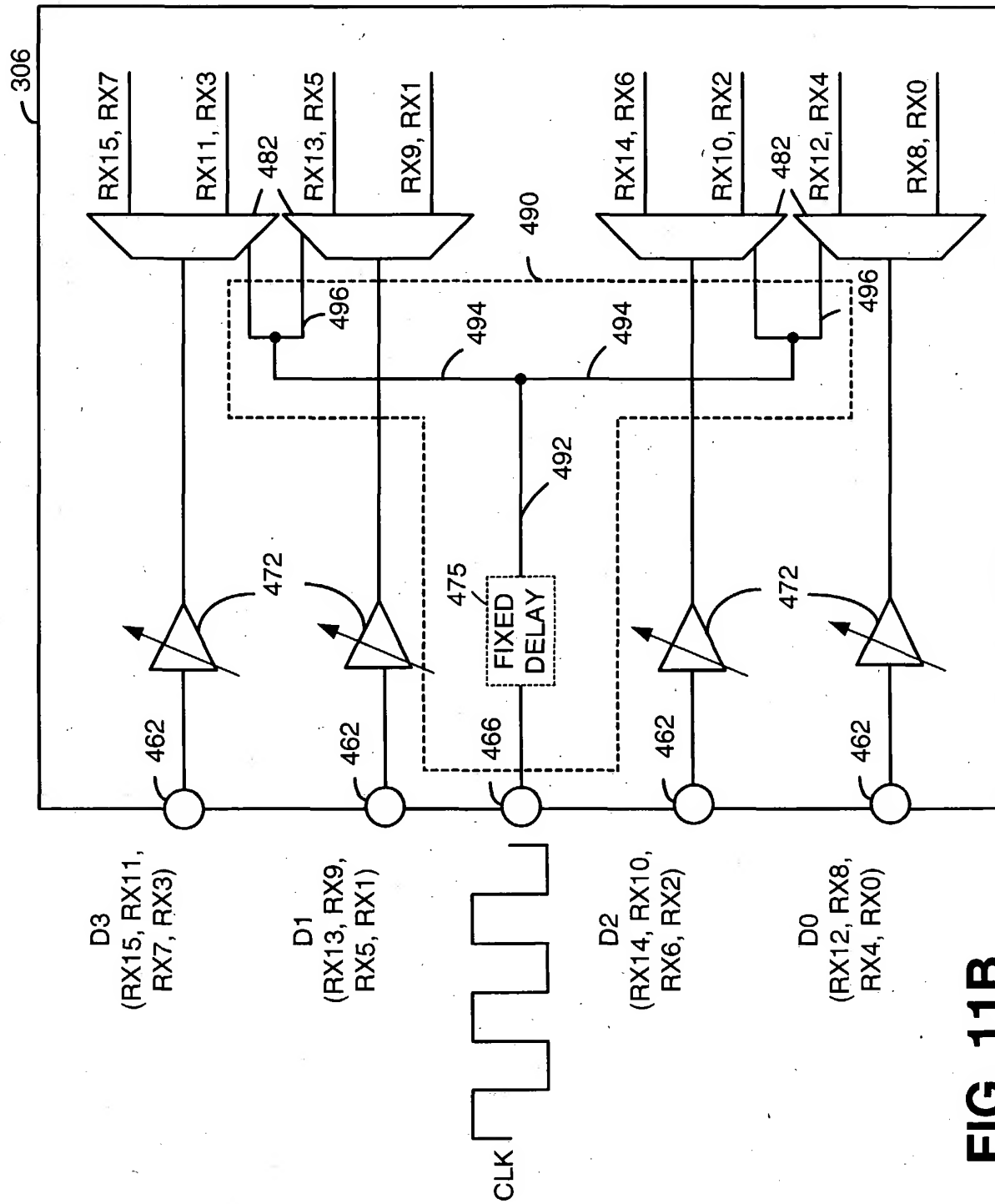


FIG. 11B

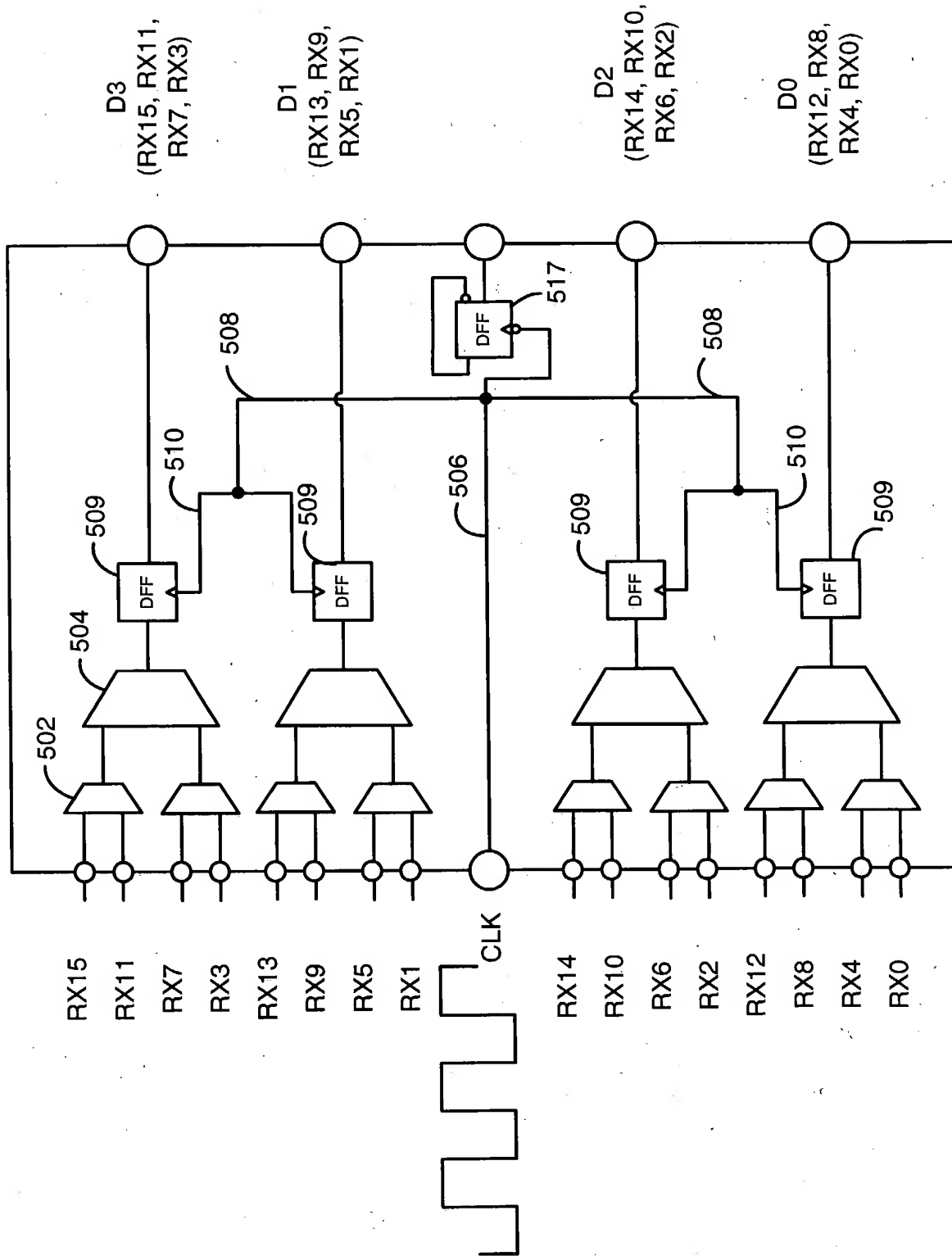


FIG. 11C

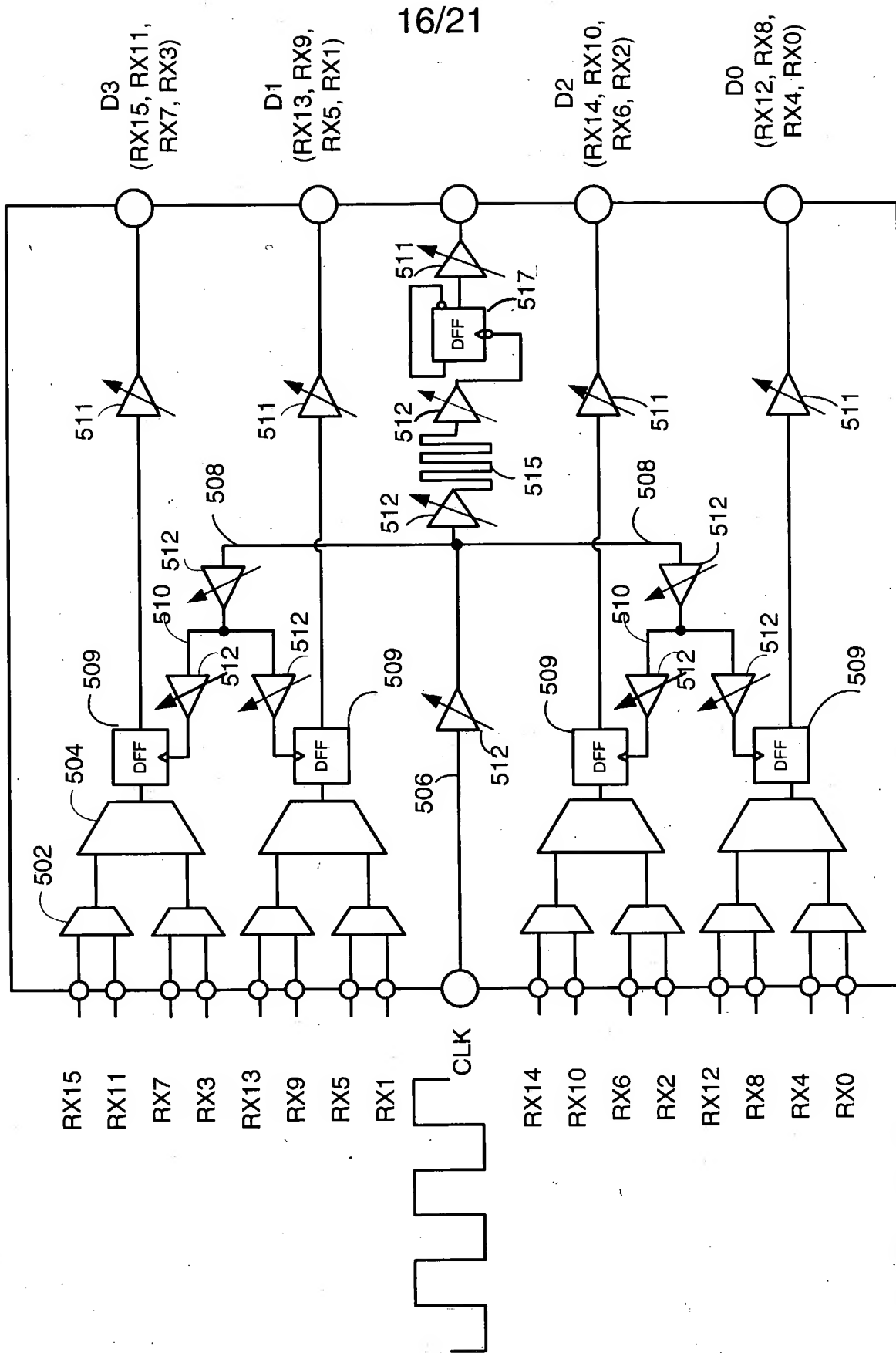


FIG. 11D

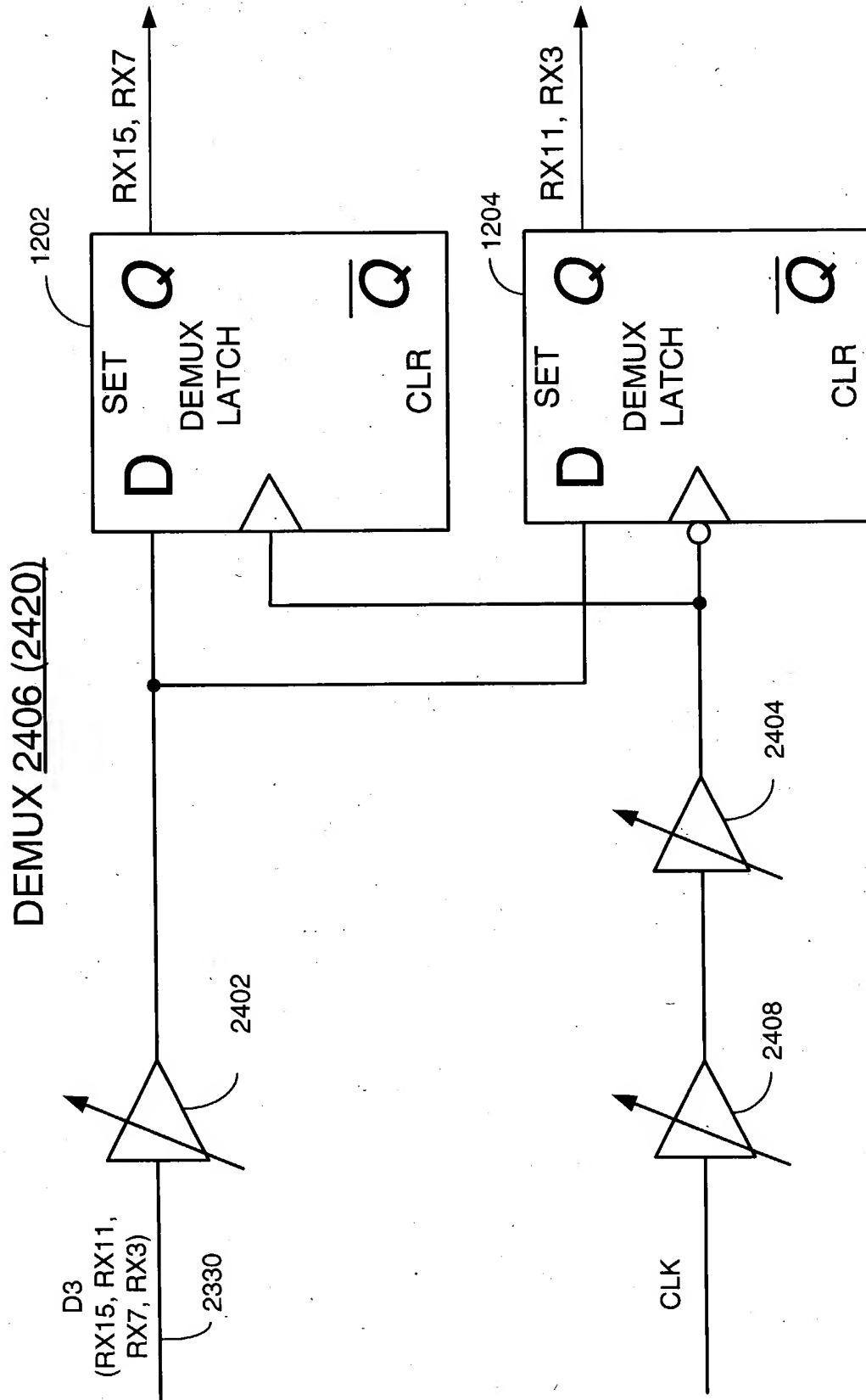


FIG. 12A

DEMUX LATCH 1202, 1204

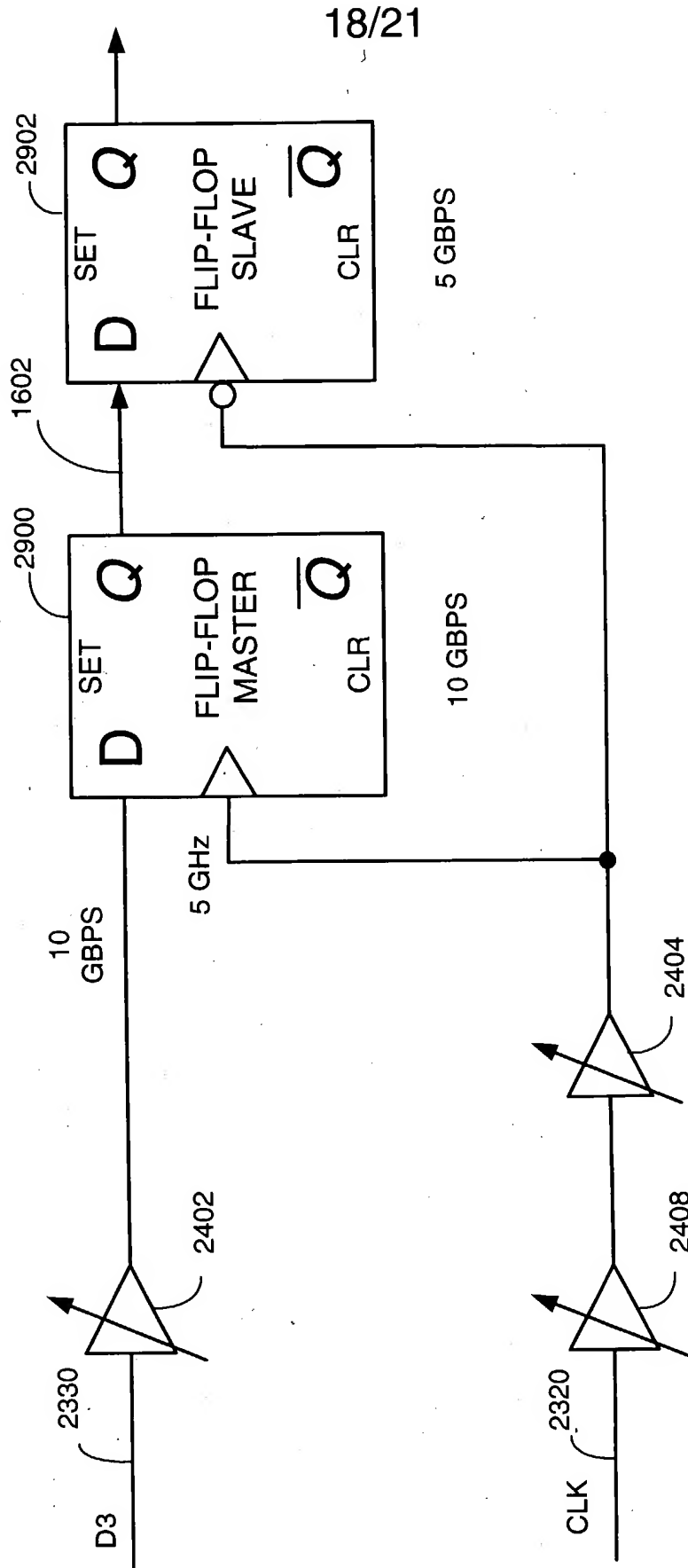


FIG. 12B



FIG. 13

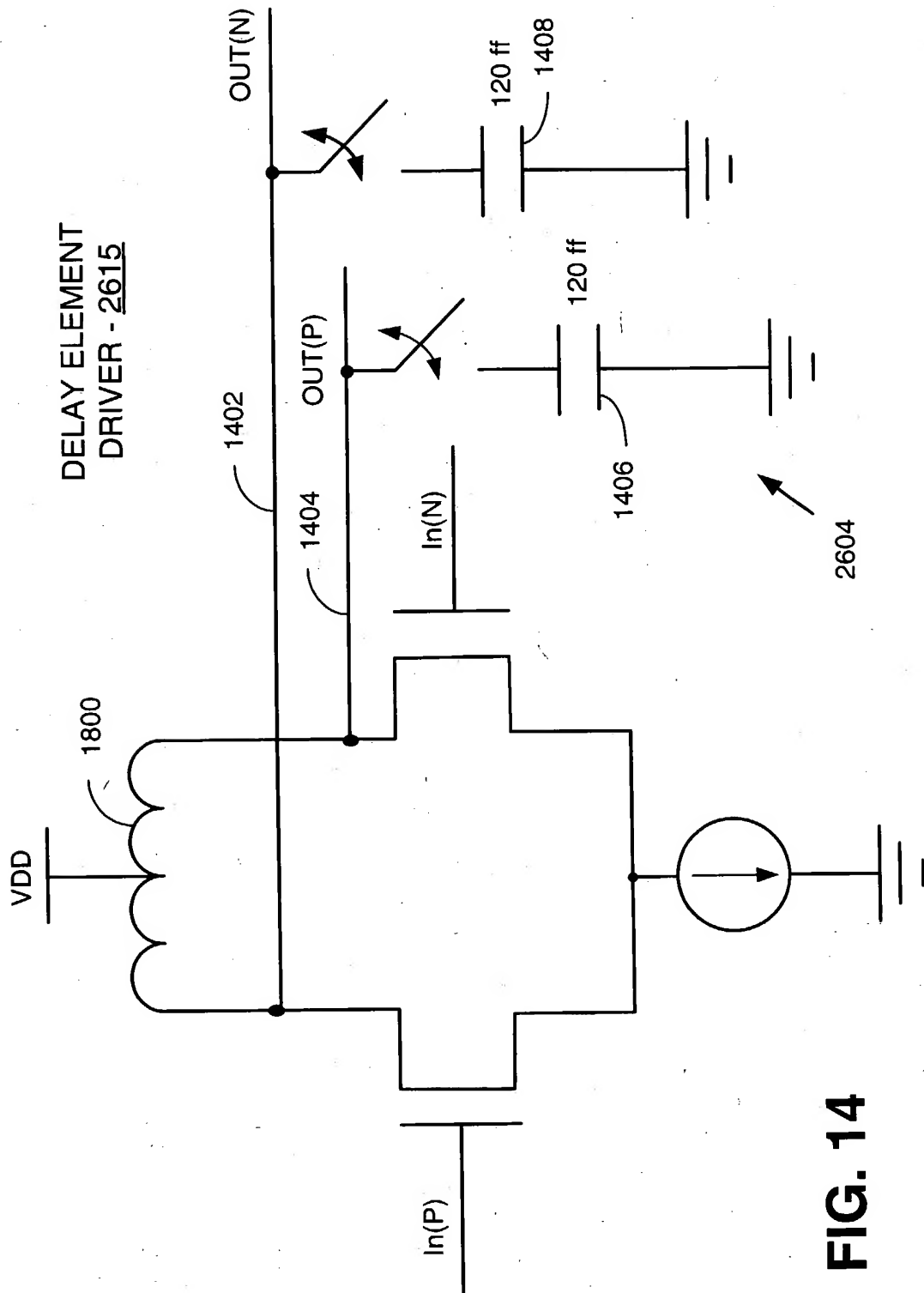


FIG. 14

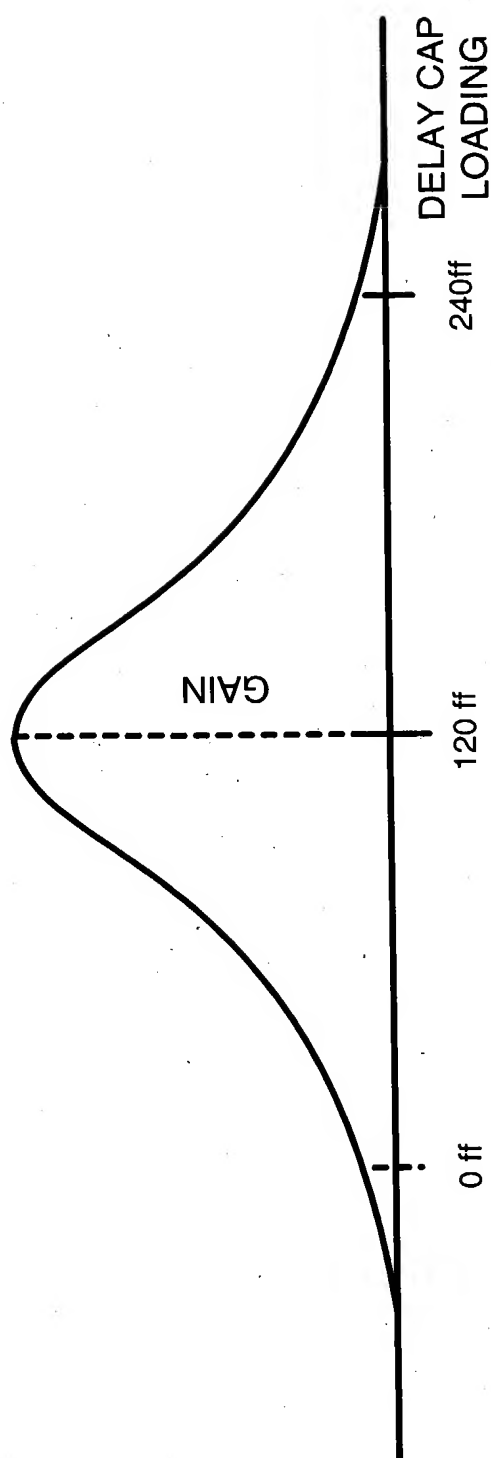


FIG. 15A

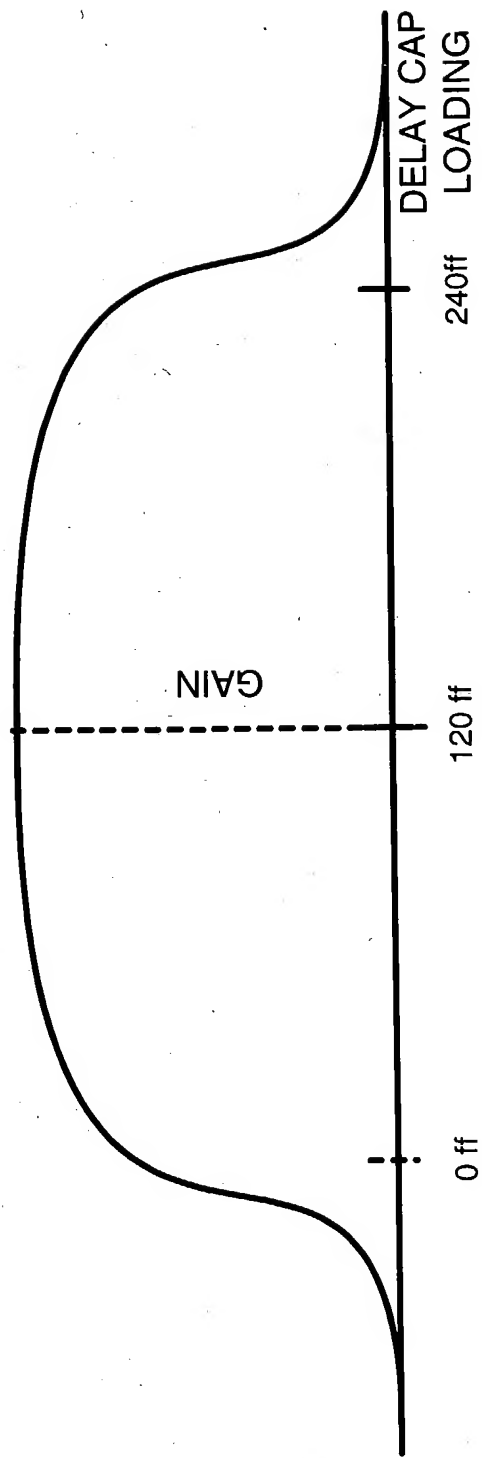


FIG. 15B